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[BOOK] Distributed systems

AS Tanenbaum, M Van Steen · 2002 · Citeseer

... High Performance Networks • Clusters and Computational **Grids** Course Outline ... Guests devices Laptop TV/PC Hotel wireless network ... IP, ATM virtual circuits Data link Responsible for transmission of packets between **nodes** that are directly connected by a physical link. ...

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... environment of Figure 1 might well first reduce within each SMP **node**, then within ... DeKalb, Ill., and a Resident Associate Guest in the Mathematics and **Computer** Science Division ... interests include techniques required to execute message passing programs in **grid** environments. ...

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... longstanding assumption that software environments and applications are bound to specific **computer** systems that ... The **node** configuration cost—which is on the order of seconds, or minutes for a ... long runs of **resource**-intensive applications, which are typical in a **grid** setting. ...

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... School of **Computer** Science and ... The current version also uses these services along with the new features (such as **Grid** Directory Information Services) supported by the ... clusters of computers (such as Beowulf-class Linux clusters) it is common for only the master **node** to be ...

Cited by 895 · [Related articles](#) · [All 48 versions](#)[\[PDF\] from arxiv.org](#)**From virtualized resources to virtual computing grids: the In-VIGO system**

S Adabala, V Chadha, P Chawla · ... · Generation Computer ... · 2005 · Elsevier

... As a distributed computing system that includes processing **nodes**, storage devices, networks, software applications, and user ... and finally recover the results using a laptop or from a public **computer** of an ... in In-VIGO entails: (1) the installation of a tool in **grid**-enabled resources, (2) ...

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... the file transfer commands, as well as the execution of the model on the remote **node**. ... Accordingly, it is not possible to consider the **Grid** as a single **computer** system under the **control** ... understanding of its problem domain as well as the nature of the computational **Grid** to provide ...

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K Krauter, R Buyya · ... · Software: Practice and ... · 2002 · Wiley Online Library

... INTRODUCTION A distributed network computing (NC) system is a virtual **computer** formed by a networked set of heterogeneous machines that agree to share their local resources with each other. ... Hard QoS support is provided when all **nodes** in the **Grid** can police the SLAs ...

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K Keanehey, I Foster, T Freeman · ... · Scientific Programming, 2005 · IOS Press

... a Math & **Computer** Science Division, Argonne National Laboratory, Argonne, IL 60439, USA
b University of ... site-provided installation available as a workspace is providing **access** to **Grid** clients. ... in a relatively coarse-grained manner allocating the number of **nodes** or amount ...

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... A superscheduler routes computational requests to the "best" available **computer** in a **Grid** ... VO-neutral infrastructure providing **access** to detailed, dynamic information about **Grid** entities. ... for a compute **resource** might provide information about the number of **nodes**, amount of ...

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... the purposes of this discussion, we model the successful execution of a **computer** program as ... **Grid** applications typically operate on ensembles of resources that span administrative domains of ... is in general unreliable, due to either competing demands for the **resource** or out- ...

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